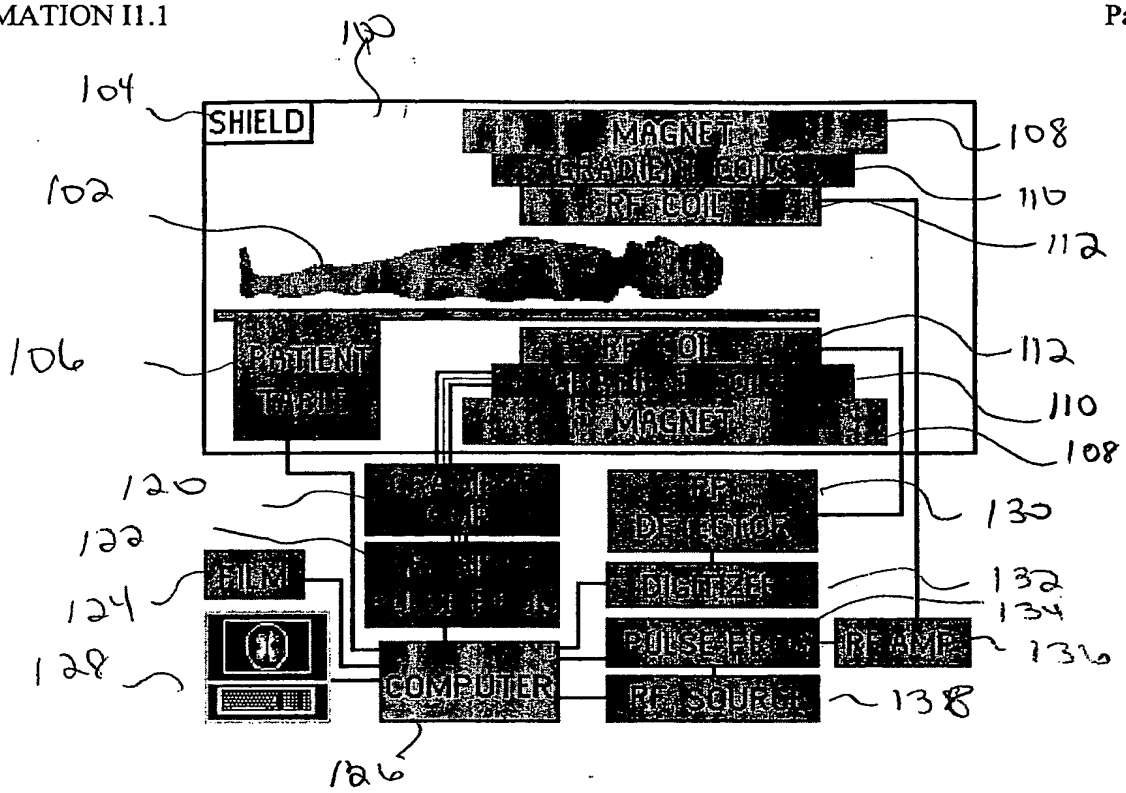
100
104
SHIELD
MAGNET
108
GRADIENT COILS
110
RF COIL
112
102
106
PATIENT TABLE
112
110
MAGNET
108
120
130
122
FILM
124
132
134
128
COMPUTER
136
138
126

FIG. 1

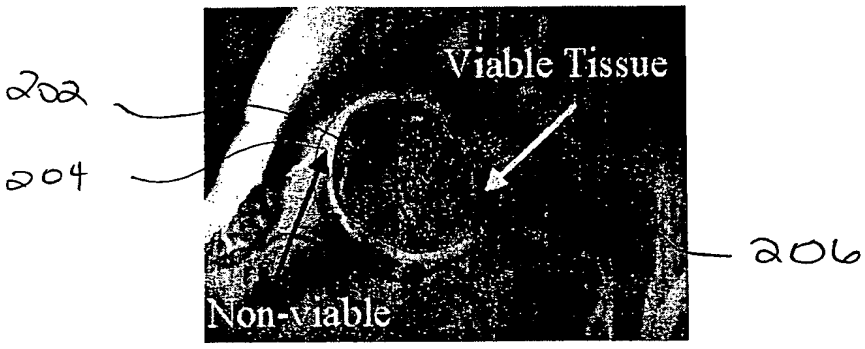

FIG. 2

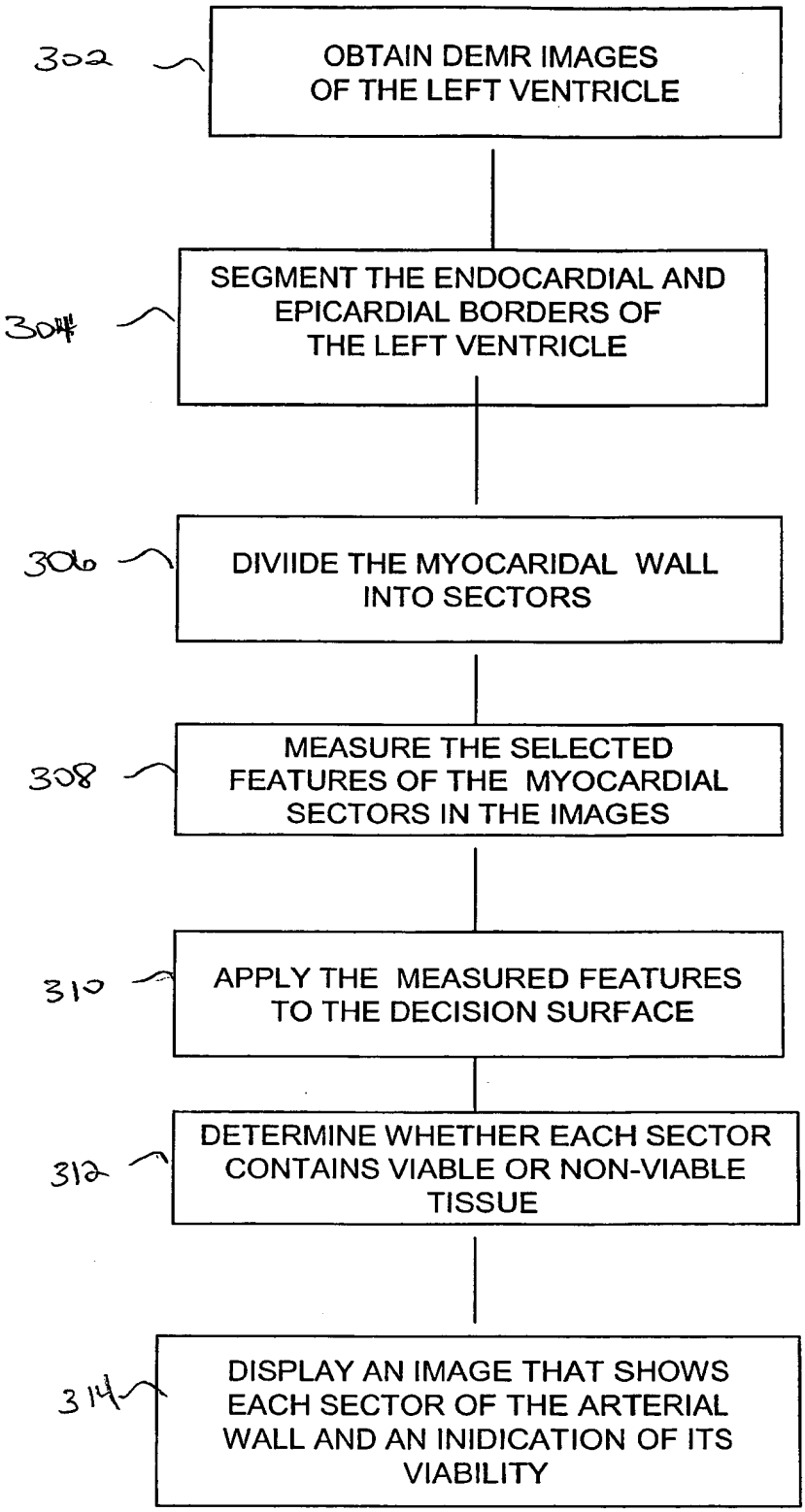
302
OBTAIN DEMR IMAGES OF THE LEFT VENTRICLE
304
SEGMENT THE ENDOCARDIAL AND EPICARDIAL BORDERS OF THE LEFT VENTRICLE
306
DIVIIDE THE MYOCARIDAL WALL INTO SECTORS
308
MEASURE THE SELECTED FEATURES OF THE MYOCARDIAL SECTORS IN THE IMAGES
310
APPLY THE MEASURED FEATURES TO THE DECISION SURFACE
312
DETERMINE WHETHER EACH SECTOR CONTAINS VIABLE OR NON-VIABLE TISSUE
314
DISPLAY AN IMAGE THAT SHOWS EACH SECTOR OF THE ARTERIAL WALL AND AN INIDICATION OF ITS VIABILITY

FIG. 3

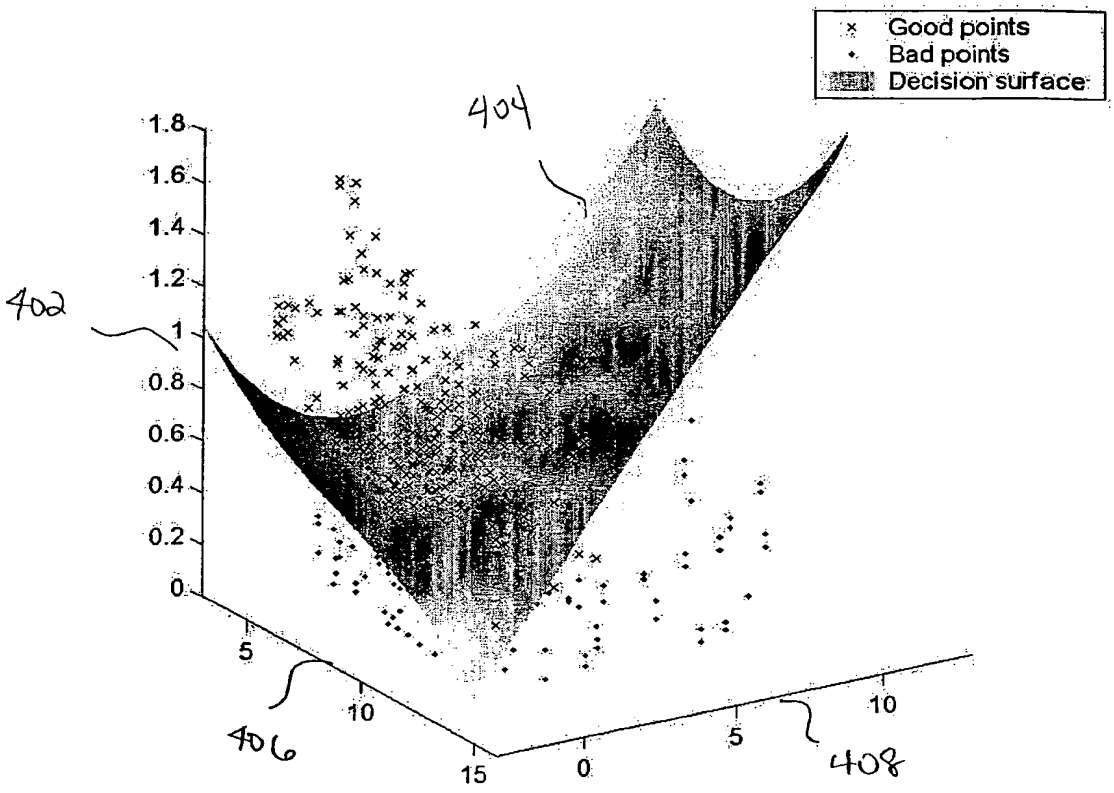
Good points
Bad points
Decision surface
404
402
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5
10
15
406
0
5
10
408

FIG. 4

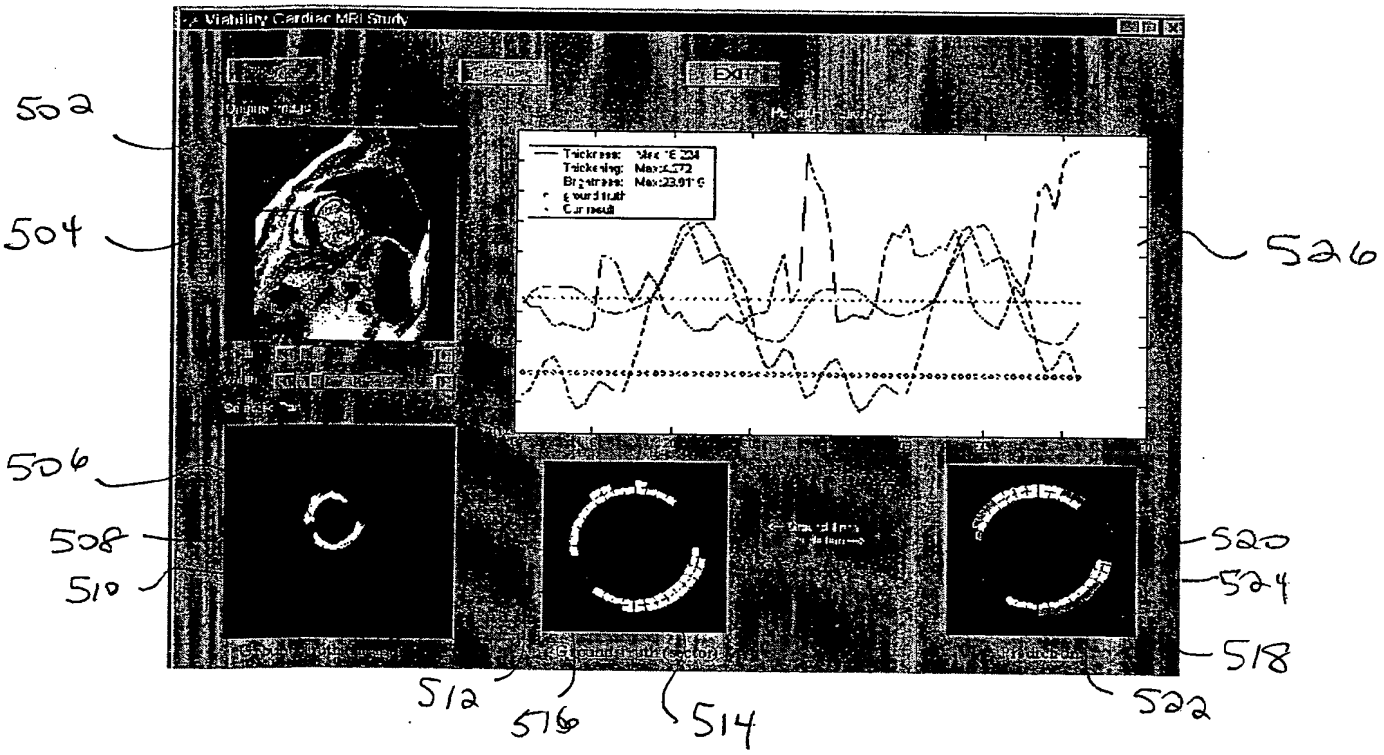
Viability Cardiac MRI Study
Exit
502
504
506
508
510
512
516
514
518
520
522
524
526

FIG. 5